

Virology

Volume 98

1979

EDITORS

W. K. Joklik, EDITOR-IN-CHIEF P. W. Choppin R. Haselkorn
A. J. Levine R. W. Schlesinger T. A. Shalla L. Siminovitch
P. K. Vogt M. Zaitlin

ASSOCIATE EDITORS

S. Adhya	R. M. Friedman	H. F. Lodish	J. R. Scott
T. Ben-Porat	E. P. Geiduschek	R. B. Luftig	P. A. Sharp
D. H. L. Bishop	R. F. Gesteland	R. C. Miller, Jr.	J. G. Shaw
J. M. Bishop	R. M. Goodman	T. J. Morris	R. J. Shepherd
L. W. Black	A. Granoff	B. Moss	V. Stollar
D. P. Bolognesi	K. A. Harrap	F. A. Murphy	J. H. Strauss
D. Botstein	I. Herskowitz	P. E. Neiman	M. D. Summers
G. E. Bruening	L. L. Hoefert	J. S. Pagano	W. C. Summers
J. S. Colter	R. Hull	P. Palese	R. H. Symons
S. Dales	A. O. Jackson	B. A. Phillips	P. Tegtmeier
J. E. Darnell, Jr.	E. M. J. Jaspars	R. E. Pollack	H. E. Varmus
F. A. Eiserling	J. M. Kaper	F. Rapp	J. Vilcek
F. A. ES. U. Emerson	E. Kieff	J. Sambrook	R. A. Weinberg
B. N. Fields	D. W. Kingsbury	P. A. Schaffer	J. Youngner
E. Fleissner	R. M. Krug	A. Scheid	N. D. Zinder
R. I. B. Francki	L. Levintow	M. J. Schlesinger	H. J. Zweerink
D. I. Friedman	R. M. Lister	E. M. Scolnick	

ACADEMIC PRESS
New York and London



Copyright © 1979 by Academic Press, Inc.

All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (Operations Staff, P.O. Box 765, Schenectady, New York 12301), for copying beyond that permitted by Sections 107 or 108 of the U. S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1979 articles are the same as those shown for current articles.

MADE IN THE UNITED STATES OF AMERICA

Contents of Volume 98

NUMBER 1, OCTOBER 15, 1979

KATHERINE ESAU. Beet Yellow Stunt Virus in Cells of <i>Sonchus oleraceus</i> L. and Its Relation to Host Mitochondria	1
DEBORAH A. EPPSTEIN, THOMAS C. PETERSON, AND CHARLES E. SAMUEL. Mechanism of Interferon Action: Synthesis and Activity of the Interferon-Mediated Low-Molecular-Weight Oligonucleotide from Murine and Human Cells	9
RONALD C. MONTELARO, PETER J. FISCHINGER, SUSAN B. LARRICK, NANCY M. DUNLOP, JAMES N. IHLE, HERMAN FRANK, WERNER SCHÄFER, AND DANI P. BOLOGNESI. Further Characterization of the Oncornavirus Inactivating Factor in Normal Mouse Serum	20
DALE R. SPRIGGS AND ROBERT G. KRUEGER. Identification of the Major Structural Proteins of Two BALB/c Myeloma C-Type Viruses	35
ADIB ROWHANI AND RICHARD STACE-SMITH. Purification and Characterization of Potato Leafroll Virus	45
DIDIER PLAAT AND JOSEPH WEBER. Intercistronic Complementation between Adenovirus 2 Temperature-Sensitive Mutants	55
BERNHARD DIETZSCHOLD, JAMES H. COX, AND LOTHAR G. SCHNEIDER. Rabies Virus Strains: A Comparison Study by Polypeptide Analysis of Vaccine Strains with Different Pathogenic Patterns	63
MYRON K. BRAKKE. Ultraviolet Absorption Spectra and Difference Spectra of Barley Stripe Mosaic and Tobacco Mosaic Viruses in Buffer and Sodium Dodecyl Sulfate	76
LORRAINE L. MARNELL AND GAIL W. WERTZ. Effect of Glucosamine Treatment on Vesicular Stomatitis Virus Macromolecular Synthesis: Host Cell Dependence	88
SUE A. MOYER AND K. SUSAN HOLMES. The Specific Inhibition of Vesicular Stomatitis Virus Replication by Toyocamycin	99
P. TOLLIN, J. B. BANCROFT, J. F. RICHARDSON, N. C. PAYNE, AND T. J. BEVERIDGE. Diffraction Studies of Papaya Mosaic Virus	108
MOUNIR ABOUHAIAR, JOHN W. ERICKSON, AND J. B. BANCROFT. The Inhibition of Papaya Mosaic Virus Assembly Related to the Effect of Cations on Its RNA	116
J. B. BANCROFT, MOUNIR ABOUHAIAR AND JOHN W. ERICKSON. The Assembly of Clover Yellow Mosaic Virus and Its Protein	121
D. T. DUBIN, K. TIMKO, S. GILLIES, AND V. STOLLAR. The Extreme 5'-Terminal Sequences of Sindbis Virus 26 and 42 S RNA	131
GERHARD HILLER, KLAUS WEBER, LOTHAR SCHNEIDER, CHRISTA PARAJSZ, AND CHRISTOPH JUNGWIRTH. Interaction of Assembled Progeny Pox Viruses with the Cellular Cytoskeleton	142
VOLKER M. VOGT, ALICE WIGHT, AND ROBERT EISENMAN. <i>In Vitro</i> Cleavage of Avian Retrovirus <i>gag</i> Proteins by Viral Protease p15	154
CHIEN-TS CHU, DEBORAH S. PARRIS, RICHARD A. F. DIXON, FLORENCE E. FARBER, AND PRISCILLA A. SCHAFFER. Hydroxylamine Mutagenesis of HSV DNA and DNA Fragments: Introduction of Mutations into Selected Regions of the Viral Genome	168
JOZEF MERREGAERT, JOHN VAN EMMELO, AND WALTER FIERIS. 3'-Terminal Nucleotide Sequence (<i>N</i> = 41) of Satellite Tobacco Necrosis Virus RNA	182
MICHAEL J. HAYMAN, GAY KITCHENER, AND THOMAS GRAF. Cells Transformed by Avian Myelocytomatosis Virus Strain CMII Contain a 90K <i>gag</i> -Related Protein	191
W. E. G. MÜLLER, R. K. ZAHN, J. ARENDES, AND D. FALKE. Oligoribonucleotide Initiators for Herpes Simplex Virus DNA Synthesis <i>in Vivo</i> and <i>in Vitro</i>	200
THOMAS BARRETT, ADRIAN J. WOLSTENHOLME, AND BRIAN W. J. MAHY. Transcription and Replication of Influenza Virus RNA	211
W. G. LAVER, G. M. AIR, R. G. WEBSTER, W. GERHARD, C. W. WARD, AND T. A. A. DOPHEIDE. Antigenic Drift in Type A Influenza Virus: Sequence Differences in the Hemagglutinin of Hong Kong (H3N2) Variants Selected with Monoclonal Hybridoma Antibodies	226
PETER PALUKAITIS AND ROBERT H. SYMONS. Hybridization Analysis of Chrysanthemum Stunt Viroid with Complementary DNA and the Quantitation of Viroid RNA Sequences in Extracts of Infected Plants	238
SHORT COMMUNICATIONS	
STEPHEN D. DAUBERT AND GEORGE BRUENING. Genome-Associated Proteins of Comoviruses	246
KEVIN R. LYNCH, DIANE PENNICA, HERBERT L. ENNIS, AND PAUL S. COHEN. Separation and Purification of the mRNAs for Vesicular Stomatitis Virus NS and M Proteins	251

